

## INTERNATIONAL SEARCH REPORT

International Application No.

PCT/DE 02/03508

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 G01D5/20 H03H19/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01D H03H H03C H02M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 00 25093 A (GILL MICHAEL JOHN) 4 May 2000 (2000-05-04) abstract; figures 9-12 ---	1,26
A	EP 0 611 165 A (PILKINGTON MICRO ELECTRONICS) 17 August 1994 (1994-08-17) abstract; figures ---	1,3,4, 18,20,26
A	US 4 507 625 A (LEE MAN S ET AL) 26 March 1985 (1985-03-26) the whole document ---	1,3,4,26
A	US 5 729 163 A (THACKER DANIEL DEAN ET AL) 17 March 1998 (1998-03-17) the whole document ---	1,26
	--- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

3 February 2003

Date of mailing of the international search report

11/02/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Ramboer, P

## INTERNATIONAL SEARCH REPORT

Internal Application No  
PCT/DE 02/03508

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 626 808 A (NOSSEK JOSEF) 2 December 1986 (1986-12-02) abstract; figures ---	1,26
A	EP 0 119 627 A (SIEMENS AG) 26 September 1984 (1984-09-26) the whole document ---	1,26
A	WO 98 59216 A (MICRO EPSILON MESSTECHNIK ;WISSPEINTNER KARL (DE); MEDNIKOV FELIX) 30 December 1998 (1998-12-30) the whole document ---	1,26
A	EP 0 402 510 A (SIEMENS AG) 19 December 1990 (1990-12-19) the whole document -----	1,26

## INTERNATIONAL SEARCH REPORT

tion on patent family members

Internati plication No

PCT/L 2/03508

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0025093	A	04-05-2000	AU 5379999 A EP 1121572 A1 WO 0025093 A1	15-05-2000 08-08-2001 04-05-2000
EP 0611165	A	17-08-1994	AT 182429 T AU 676520 B2 AU 5485494 A CA 2115330 A1 DE 69419538 D1 DE 69419538 T2 EP 0611165 A1 GB 2275144 A ,B JP 7046087 A SG 49710 A1 US 5608345 A	15-08-1999 13-03-1997 18-08-1994 13-08-1994 26-08-1999 23-03-2000 17-08-1994 17-08-1994 14-02-1995 15-06-1998 04-03-1997
US 4507625	A	26-03-1985	NONE	
US 5729163	A	17-03-1998	NONE	
US 4626808	A	02-12-1986	DE 3022252 A1 AT 7092 T EP 0042116 A1 JP 1059768 B JP 57028420 A	24-12-1981 15-04-1984 23-12-1981 19-12-1989 16-02-1982
EP 0119627	A	26-09-1984	DE 3310339 A1 AT 53269 T DE 3482396 D1 EP 0119627 A2 JP 1772539 C JP 4062203 B JP 59181708 A	27-09-1984 15-06-1990 05-07-1990 26-09-1984 14-07-1993 05-10-1992 16-10-1984
WO 9859216	A	30-12-1998	DE 19752497 A1 WO 9859216 A1 DE 59803138 D1 EP 0990123 A1 JP 3338455 B2 JP 2000514198 T US 6462536 B1	28-01-1999 30-12-1998 28-03-2002 05-04-2000 28-10-2002 24-10-2000 08-10-2002
EP 0402510	A	19-12-1990	EP 0402510 A1 DE 58909435 D1 US 5233548 A	19-12-1990 19-10-1995 03-08-1993